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Publications/Services Standards Conferences Careers/Jobs IEEE Xolo 1 Million Doc Welcome 1 Million User United States Patent and Trademark Office And Go ABSTRACT F **Quick Links** FAQ Terms IEEE Peer Review Welcome to IEEE Xplore® Search Results [PDF FULL-TEXT 716 KB] PREV NEXT DOWNLOAD CITATION O- Home - What Can Request Permissions I Access? RIGHTSLINK() C Log-out **Tables of Contents** — Journals Multiple basis wavelet denoising using Besov projection: & Magazines Hyeokho Choi Baraniuk, R. Conference Dept. of Electr. & Comput. Eng., Rice Univ., Houston, TX, USA; **Proceedings** This paper appears in: Image Processing, 1999. ICIP 99. Proceedings. 1999 O- Standards **International Conference on** Search Meeting Date: 10/24/1999 - 10/28/1999 O- By Author Publication Date: 1999 O- Basic Location: Kobe Japan On page(s): 595 - 599 vol.1 ()- Advanced Volume: 1 CrossRef Reference Cited: 13 Number of Pages: 4 vol.(lxxix+676+977+952+449) **Member Services** Inspec Accession Number: 6511861 O- Join IEEE **Abstract:** - Establish IEEE Wavelet-based image denoising algorithm depends upon the energy compaction prop Web Account of wavelet transforms. However, for many real-world images, we cannot expect good - Access the energy compaction in a single wavelet domain, because most real-world images cons **IEEE Member** of components of a variety of smoothness. We can relieve this problem by using mul-**Digital Library** wavelet bases to match different characteristics of images. In this paper, we propose **IEEE** Enterprise novel image denoising algorithm that uses multiple wavelet bases. By establishing a relationship between the deterministic Besov space theory and the wavelet-domain - Access the statistical models, we generalize the Besov theory for finite sampled data. After defir **IEEE Enterprise File Cabinet** convex sets in Besov spaces that contain the true image, we obtain an estimate of the true image by the method of projection onto convex sets. The algorithm outperforms existing multiple wavelet basis denoising algorithms; in particular, it shows excellent Print Format performance at low signal-to-noise ratios **Index Terms:** image restoration wavelet transforms Besov projections energy compaction finite sampled data image denoising wavelet denoising wavelet transforms

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& Magazines	Boccignone, G. Picariello, A.	y
Conference Proceedings	Dipt. di Ingegneria dell'Inf. e Ingegneria Elettrica, Salerno Univ., Ital	• . •
O- Standards	This paper appears in: Acoustics, Speech, and Signal Processing 97., 1997 IEEE International Conference on	, 1997. ICASSI
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Search	Meeting Date: 04/21/1997 - 04/24/1997	
O- By Author	Publication Date: 21-24 April 1997	
O- Basic	Location: Munich Germany	
O- Advanced	On page(s): 2789 - 2792 vol.4	
O- CrossRef	Volume: 4 Reference Cited: 7	
Member Services	Number of Pages: 5 vol. (xxii+xxv+xxiv+xxii+4156)	
	Inspec Accession Number: 5744670	
O- Join IEEE C- Establish IEEE	Abstract:	
Web Account	We present results obtained by different contrast enhancement meth	ods applied to
O- Access the	medical images. We take into account classical histogram specification	•
IEEE Member Digital Library	wavelet-based techniques and a novel approach for multiscale contra The latter, whose rationale grounds in theories of visual perception, or	
	definition of the Fechner-Weber's contrast within the context of a noi	
IEEE Enterprise	representation generated by anisotropic diffusion. Our experimental	fields concerns a
O- Access the	difficult kind of medical images, namely digital mammographic image	2S
IEEE Enterprise File Cabinet	Index Terms:	
	diagnostic radiography image enhancement image representation medica	
Print Format	<u>visual perception</u> <u>wavelet transforms</u> <u>Fechner-Weber's contrast</u> <u>anisotrop</u> <u>mammographic images</u> <u>experiment</u> <u>histogram specification</u> <u>local technique</u>	
	multiscale contrast enhancement nonlinear scale-space representation visu	
	based techniques	
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2	S2	0	(multi adj scale) with unsharp
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4	S4	13	S3 same wavelet
5	S5	101	("5276515" "5861915" "4500634" "4969051" "5027202" "4322717" "4432610" "4503469" "4571604" "4606064" "4866520" "4868656" "4905149" "4910599" "4937677" "4951125" "5005459" "5179320" "5191441" "5274709" "5298990" "5396286" "5497192" "5513025" "5528378" "5574508" "5689436" "5694168" "5726766" "5768634" "5838817" "5845014" "5864787" "5883678" "5911007" "5933187" "6052487" "6088489" "6088486" "6108378" "6130913" "6154495" "6166770" "6222978" "6222978" "6236431" "6339479" "6351558" "6570673" "6608699").pn.
6	S6	0	S5 and wavelets
7	S7	9455	wavelet
8	S8	881	S7 same (smoothing or enhanc\$5 or sharp\$5)
9	S9	161	S8 same (decompos\$5 or (multi adj (resolution or scale)))
10	S11	2978	wavelet same coefficient\$1
11	S12	9575	wavelet
12	S13	893	S12 same (smoothing or enhanc\$5 or sharp\$5)
13	S14	211	S13 same S11
14	S15	18	S14 same adaptive
15	S16	5344	382/254-275.ccls.
16	S17	302	S16 and (wavelet or subband)
17	S18	5350	382/254-275.ccls.
18	S19	303	S18 and (wavelet or subband)
19	S20	155	S19 and (scale and (coefficient or factor))
20	S21	0	multiscale adj unsharp
21	S22	0	(multi adj scale) adj unsharp
22	S23	4	(multi adj resolution) adj unsharp
23	S24	18	(multi adj resolution) same unsharp
24	S25	45567	"382"/\$.ccls.
25	S26	685	S25 and wavelets
26	S27	2330	S25 and wavelet
27	S28	1419	\$27 and (sharpen\$3 or smooth\$3 or enhanc\$5 or blur\$4)
28	S29	201	S27 and (sharpen\$3 or smooth\$3 or enhanc\$5 or blur\$4).ab.

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29	S30	24	\$29 and (coefficient near (multipl\$5 or scal\$4))
30	S31	81	wavelet same denois\$3
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33	S34	315	\$33 and (sharpen\$3 or smooth\$3 or enhanc\$5 or blur\$4).ab.
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37	S38	101	("5276515" "5861915" "4500634" "4969051" "5027202" "4322717" "4432610" "4503469" "4571604" "4606064" "4866520" "4868656" "4905149" "4910599" "4937677" "4951125" "5005459" "5179320" "5191441" "5274709" "5298990" "5396286" "5497192" "5513025" "5528378" "5574508" "5689436" "5694168" "5726766" "5768634" "5838817" "5845014" "5864787" "5883678" "5911007" "5933187" "6052487" "6088489" "6088486" "6108378" "6130913" "6154495" "6166770" "6222978" "6222978" "6236431" "6339479" "6351558" "6570673" "6608699").pn.
38	S39	128	berkner.in.
39	S40	12	berkner-kathrin.in.
40	S41	5	(("6263120") or ("5717789") or ("5883973") or ("5805721") or ("5867606")).PN.
41	S42	77	unsharp and pyramid
42	S43	50	complex adj wavelet
43	S44	12	complex adj wavelet adj transform
44	S45	7	overcomplete adj wavelet adj transform
45	S46	5	(("5717789") or ("5883973") or ("5805721") or ("5867606") or ("6263120")).PN.